

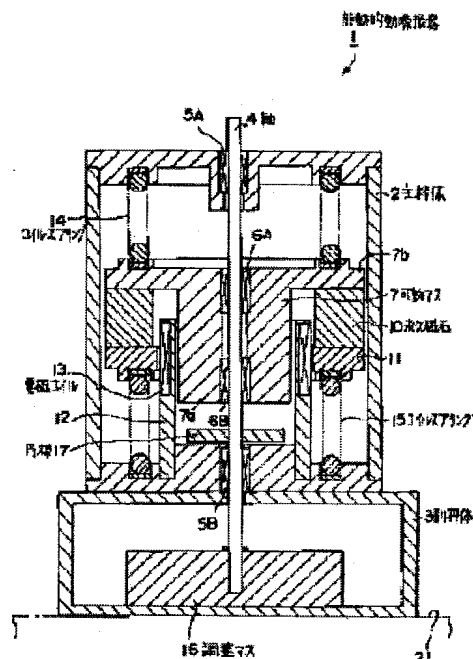
ACTIVE DYNAMIC VIBRATION ABSORBER

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Abstract of JP6074294

PURPOSE: To provide an active dynamic vibration absorber allowing desirable vibration damping effect to be obtained in a wide frequency band with a small power consumption without causing extreme enlargement in the size of a device. **CONSTITUTION:** Inside a main frame body 2 fixed onto a floor 21, a movable mass 7 is supported elastically in the vertical direction by coil springs 14, 15, and vertical electromagnetic force is imparted to this movable mass 7 by an electromagnetic actuator formed of a permanent magnet 10 fixed to the movable mass 7 and an electromagnetic coil 13 fixed onto the main frame body 2 side. An adjusting mass 16 is fixed to the lower end part of a shaft 4 for guiding the vibration of the movable mass 7, and the shaft 4 is constituted in such a way as to advance/recede freely in relation to the main frame body 2 by linear bearings 5A, 5B. A disc 17 fixed to the shaft 4 can be magnetically fitted or separated to/from the movable mass 7.



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